



























#### Features

- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W</li>
- · Isolation class II
- Pass LPS (Limited power source)
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category Ⅲ
- LED indicator for power on
- 3 years warranty

# Applications

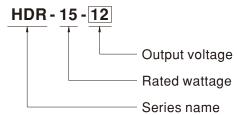
- · Household control system
- Building automation
- Industrial control system
- Factory automation
- Electro-mechanical apparatus

## Description

HDR-15 is one economical ultra slim 15W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 17.5mm(1SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC (277VAC operational) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

HDR-15 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 87%, the entire series can operate at the ambient temperature between -30 $^\circ$ C and 70°C under air convection. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-15 a very competitive power supply solution for household and industrial applications.

# Model Encoding

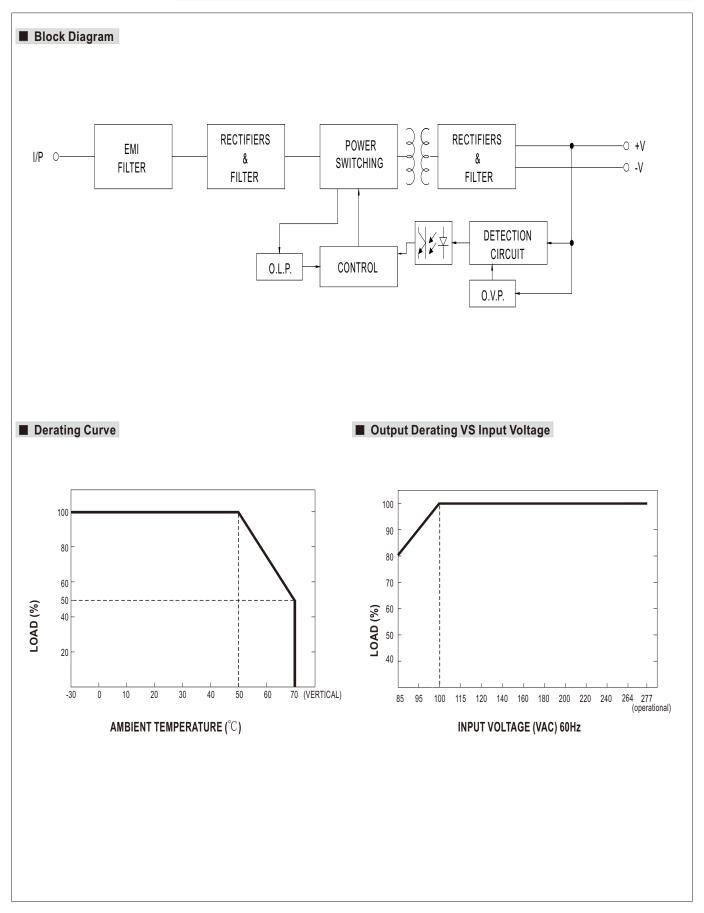




### **SPECIFICATION**

MODEL		HDR-15-5	HDR-15-12	2	HDR-15-15	HDR-15-24	HDR-15-48		
	DC VOLTAGE	5V	12V		15V	24V	48V		
	RATED CURRENT	2.4A	1.25A		1A	0.63A	0.32A		
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.25A		0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A		
OUTPUT	RATED POWER	12W	15W		15W	15.2W	15.4W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p		120mVp-p	150mVp-p	240mVp-p		
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8	3V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%		±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±1.0%	±1.0%		±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%		±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	2000ms, 80ms/230VAC	30VAC 2000ms, 80ms/115VAC at full load						
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms	s/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational ) 120 ~ 370VDC (390VDC operational )							
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	EFFICIENCY (Typ.)	80%	85% 85.5% 86% 87%						
01	AC CURRENT (Typ.)		0.25A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC							
	OVERLOAD Note.4								
		110 ~ 145% rated output power  Protection type: Constant current limiting, recovers automatically after fault condition is removed							
PROTECTION			1		1				
		5.75 ~ 6.75V	14.2 ~ 16.2		18.8 ~ 22.5V	30 ~ 36V	56.5~ 64.8V		
		Protection type: Shut off o/p voltage, clamping by zener diode							
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-conde							
	STORAGE TEMP., HUMIDITY	-40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 50°C) RH non-condensing							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING ALTITUDE	2000 meters							
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters							
	SAFETY STANDARDS	UL60950-1, UL508, TUV	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Parameter		Standard		Test Level / No	Test Level / Note		
		Conducted		EN55032(CISPR32), CNS13438		Class B	Class B		
				EN55032(CISPR32), CNS13438		Class B	Class B		
		Harmonic Current		EN61000-3-2		Class A	Class A		
SAFETY &		Voltage Flicker	Flicker EN61000-3-						
	EMC IMMUNITY	EN55024, EN55035, EN61000-6-2, EN61204-3							
EMC (Note 5)		Parameter	S	tandard		Test Level /No	te		
		ESD					Level 3, 8KV air; Level 2, 4KV contact, criteria		
		Radiated Susceptibility		EN61000-4-3		Level 3, criteria A			
		EFT/Burest		EN61000-4-4		Level 3, criteria A			
		Surge		EN61000-4-5		Level 4,2KV/L-N, criteria A			
		Conducted		EN61000-4-6		Level 3, criteria A			
						,			
		Magnetic Field		EN61000-4-8			Level 4, criteria A >95% dip 0. 5 periods, 30% dip 25 periods,		
		Voltage Dips and interruptions EN61000-4		:N61000-4-11	>95% dip 0. 0 periods, 60% dip 20 periods,				
OTHERS	MTBF	1166K hrs min. MIL-HDBK-217F (25°ℂ)							
	DIMENSION	17.5*90*54.5mm (W*H*D)							
	PACKING	78g;160pcs/13.5Kg/1.19CUFT							
NOTE	Ripple & noise are measure     Tolerance : includes set up     Constant current limiting ope automatically after fault conc     The power supply is consider directives. For guidance on (as available on http://www.i	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Constant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode,it will recover automatically after fault condition is removed. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)							

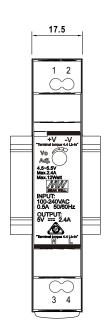


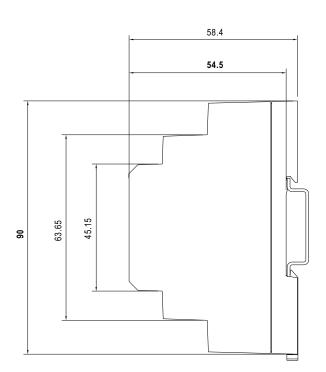


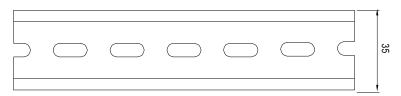


## ■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

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Pin No.	Assignment	Pin No.	Assignment					
1	+V	3	AC/N					
2	-V	4	AC/L					

#### ■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html